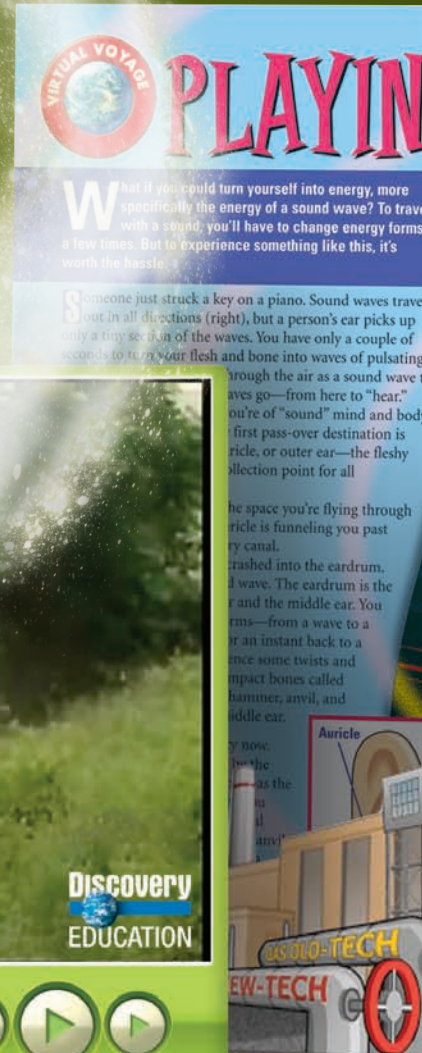


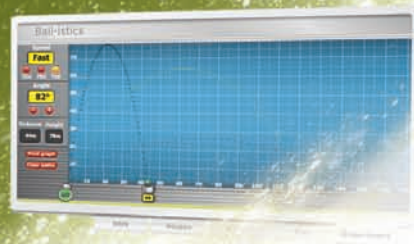
WELCOME

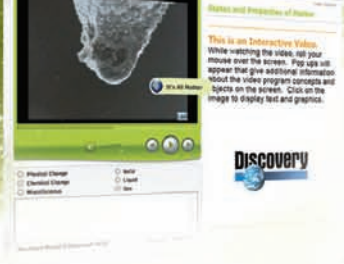
Discovery Education Science

Teacher's Guide



Middle School





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GETTING STARTED

Accessing DE Science Middle School

New Users

1. Go to www.discoveryeducation.com
2. Click the tab "Passcode/New User"
3. Enter your eight-character school Passcode in the boxes provided and click "Login".
 - A passcode allows new users to create and register a personal username and password for access to Discovery Education Science.
 - Use the school Passcode to create an account. Thereafter, you no longer need the Passcode.
4. Once you enter the Passcode, you will be prompted to create your account.
 - a. Fill in the required fields, which are indicated by an asterisk. You must also check the box to agree to the Terms of Use.
 - b. Your username must be a minimum of six characters. Both the username and password may contain these characters only: letters, numbers, hyphen, and period.
5. Your confirmation will be e-mailed to you.

Existing Users

Enter your username and password in the "Subscriber Login" section on the left side of the screen and click "Login".

This screenshot shows the 'Passcode/New User' tab selected. It features a text prompt 'Enter Your Passcode (ex: 1234-ABCD)' followed by two empty input boxes separated by a hyphen. A blue 'Login' button is to the right. Below the input fields are two links: 'What is a passcode?' and 'Tips for Getting Started'. At the bottom, there is a row of six Discovery Education logos: 'streaming', 'Educator Network', 'Science', 'Health', 'Middle School', and 'Middle School'.

This screenshot shows the 'Subscriber Login' tab selected. It features two input fields labeled 'Username' and 'Password'. Below the 'Username' field are two links: 'Forgot username or password?' and 'New User?'. A blue 'Login' button is to the right of the 'Password' field. At the bottom, there is a row of six Discovery Education logos: 'streaming', 'Educator Network', 'Science', 'Health', 'Middle School', and 'Middle School'.

BROWSING & VIEWING CONTENT

Browsing for Content

Discovery Education Science Middle School is organized by concept and topic area, to help you quickly locate multimedia resources that complement your lessons. Digital media content is collected in one place to save you time as you prepare your lessons.

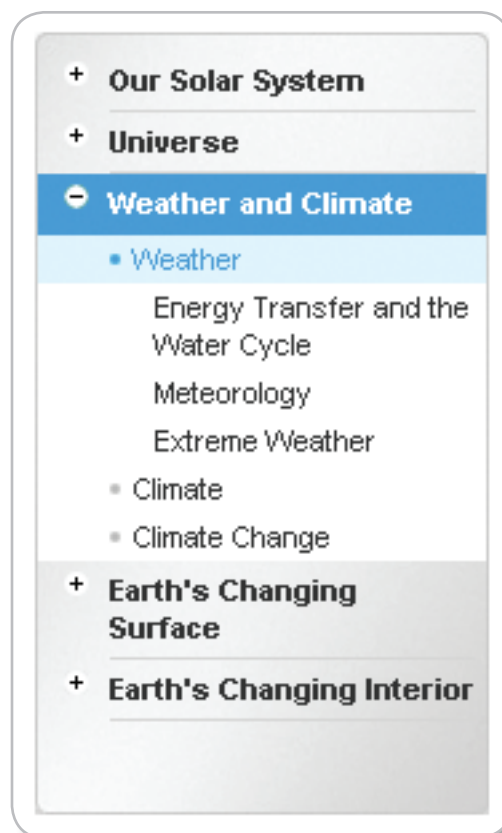
Units, Topics & Concepts

Upon login, you will find three areas of science: Physical Science, Life Science and Earth and Space Science. Browse for content by clicking any of the three tabs.



Inquiry Problems

Each topic in Discovery Education Science contains an inquiry problem that teachers can use to engage students in learning about that topic. These brief problems are designed so that, once students have mastered the concepts in the topic, they will have the information they need to return to the problem and propose a solution. Inquiry problems are presented at the topic level on each topic resources page and can be viewed on screen and in PDF format.



BROWSING & VIEWING CONTENT

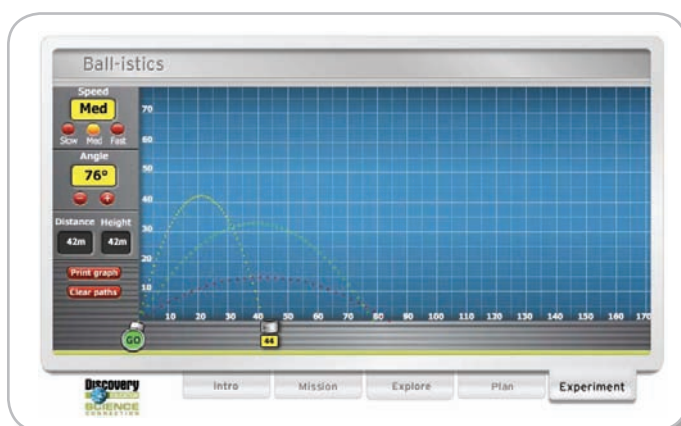
Explore Concepts

Discovery Education Science Middle School concepts are organized by resource type Interact, Watch, and Read so you can choose the type that best relates to your teaching objectives and students' learning styles. Click each tab to view a list of resources.

INTERACT

Virtual Labs

Through hands-on examination, students develop their ability to design and conduct their own scientific investigation using Discovery Education Science Virtual Labs.



Students begin each Virtual Lab by viewing the Introduction and reading the Mission, where they consider a real-world problem. Details are provided in a downloadable PDF Briefing Document. Next, they move on to the Explore phase in which they learn how to manipulate the control tools in the lab or field study to gather their data. Once they have had a chance to explore, test and understand the components of the lab, students enter the Plan phase where they develop their own testable questions related to the problem. They must also develop a plan for how they will use the lab or field study to conduct their investigation. Upon approval of the plan by the teacher, students begin the Experiment phase and conduct their investigation. They collect data and draw conclusions along the way. Finally, students share their data and conclusions through class presentations, lab reports, and journal entries.

INTERACT

Explorations

Use Discovery Education Science Explorations to activate prior knowledge or as a presentation tool to examine a specific concept. Students can make predictions about outcomes and then use the Exploration to test those predictions by manipulating a series of inputs.

For example, in the Exploration “Slippery Slope,” students predict how far a block will slide down a frictionless ramp and onto a flat table by choosing the block mass, the block bottom surface and the type of table top surface.



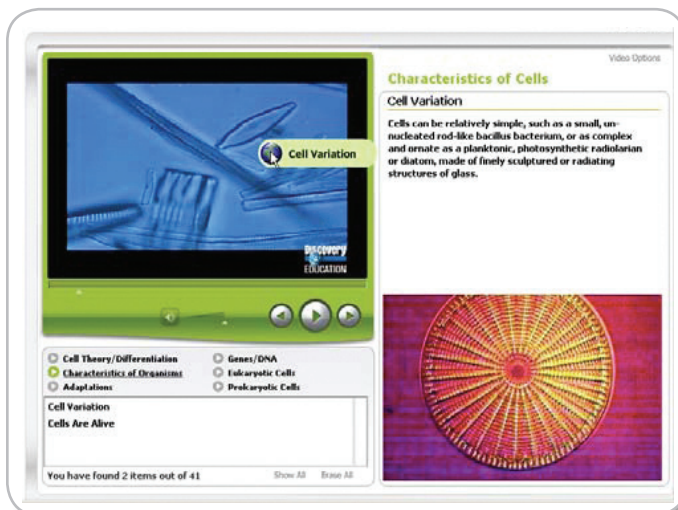
BROWSING & VIEWING CONTENT

Explore Concepts

INTERACT

Interactive Video

Discovery Education Science transforms linear video into an interactive, self-directed experience for students and an alternative presentation tool for teachers. In this highly engaging format, users click on “hotspots” during a selected video segment to pause the video to learn additional information and reinforce learning points. Supplemental text and graphics match clickable objects in the video window. Students can also build a set of terms in the Hot Spot List Manager to track the concepts they have explored.



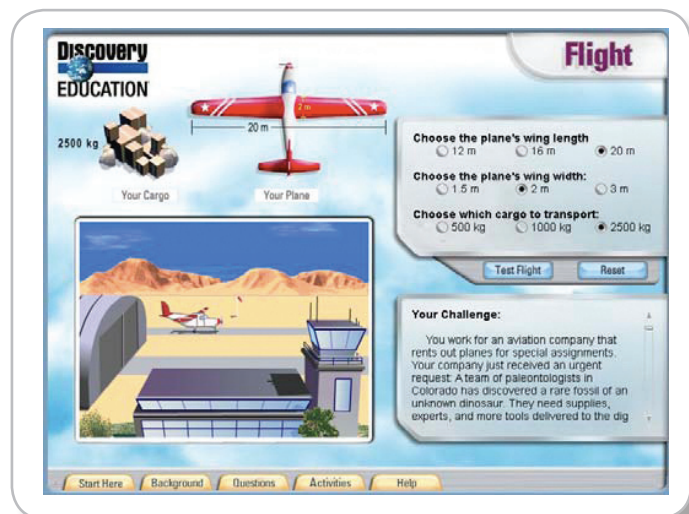
TIP: Click the View Options link in the upper right area of the screen to change the video pause settings.

INTERACT

Integrated Science Simulations (ISS)

Students use Discovery Education Science Integrated Science Simulations to explore a situation from a variety of perspectives. They can explore concepts by making choices and using dynamic interactivity to control a series of relational variables.

For example, in the ISS “Flight,” students engage in a flight simulation, where they are challenged to transport three different cargo bundles while selecting the smallest wing area possible for the plane. Background information, questions and additional activities are provided for each ISS.



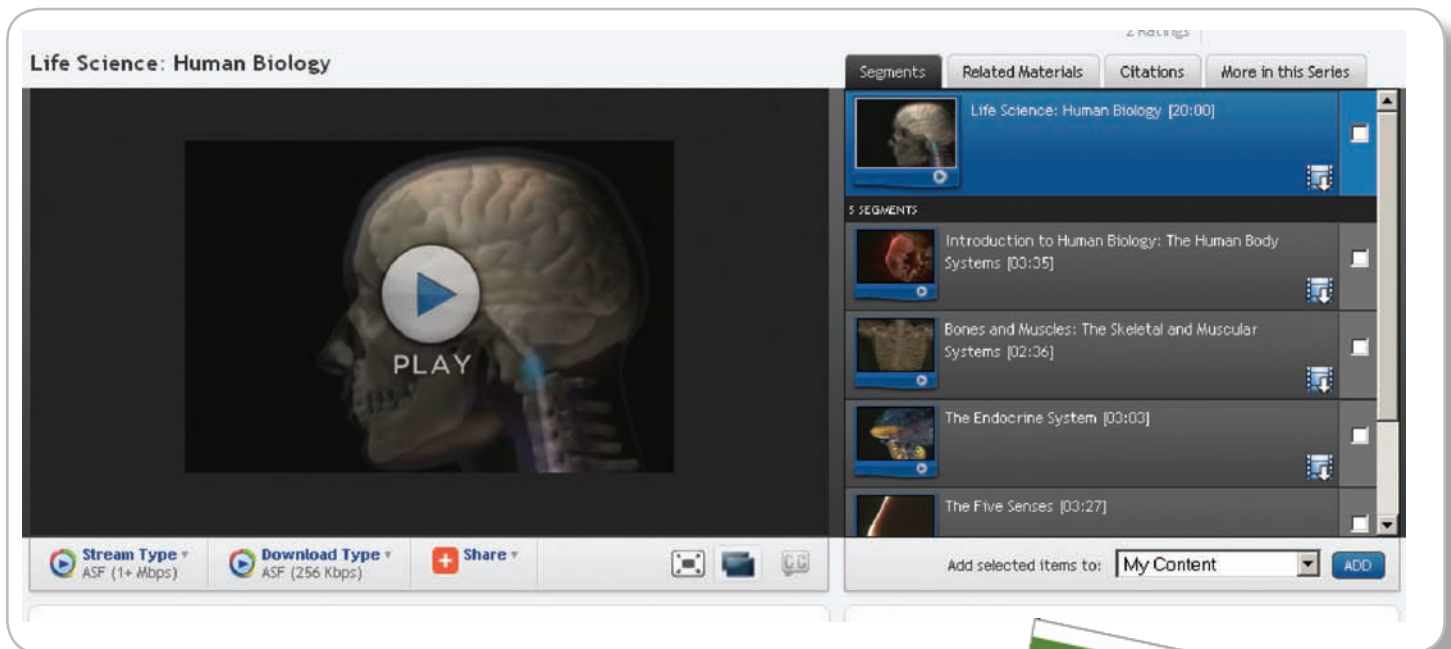
BROWSING & VIEWING CONTENT

Explore Concepts

WATCH

Video

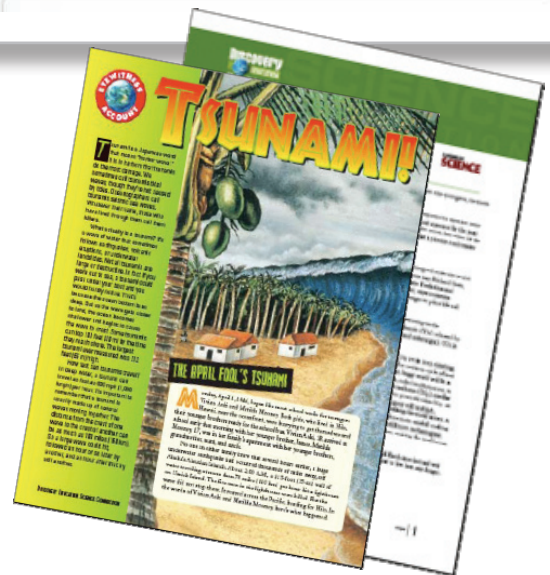
Discovery Education Science videos are divided into “chapters” or “segments” that illustrate specific concepts within each Discovery Education Science topic. Play and download videos, save them to folders in My Content or email video information to a colleague. Easy to use content tabs provide quick access to the full video, video segments, citation information and related materials. All videos have been correlated to teaching standards for all states.



READ

Reading Passages

Enrich your science curricula with articles from a variety of trusted sources. Reading passages are leveled to make the content accessible to students with different reading abilities. Colorfully visual passages from Discovery Education's award winning book series are also available. Click the “View Details” link below each reading passage description to add it to a folder in My Content and review state Curriculum Standards.



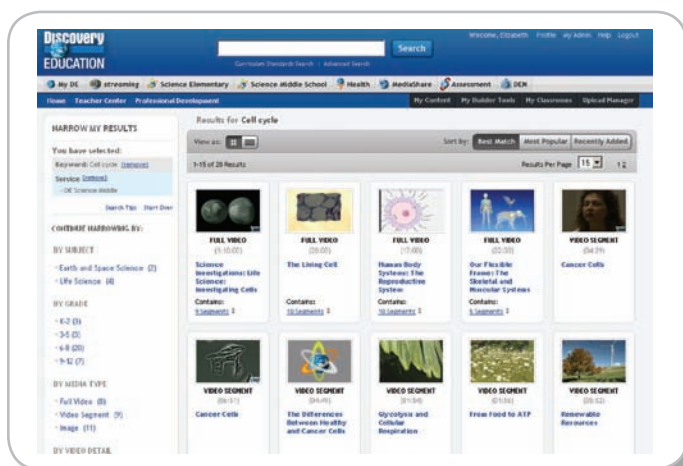
BROWSING & VIEWING CONTENT

Search Tools

Robust search tools enable you to quickly locate a variety of media assets and refine your search by media type. As you conduct your search, you can move forward and backward in your results by clicking any of the links in the breadcrumb trail.

Keyword Search

Use the Keyword Search to conduct targeted searches for specific media types. The search results will return titles and descriptions that contain the keyword you entered. The power of Boolean Query allows you to include and exclude words or phrases - for example: Rocks NOT minerals. If you use quotation marks to search for a phrase - for example "cell cycle" - you will constrain your search to media that includes the entire phrase in the title or description.



The default display for a keyword search for All Content returns a list of video segments in the main results area. On the left side navigation bar, you can access links to 10 different media types or view media by scope and sequence.

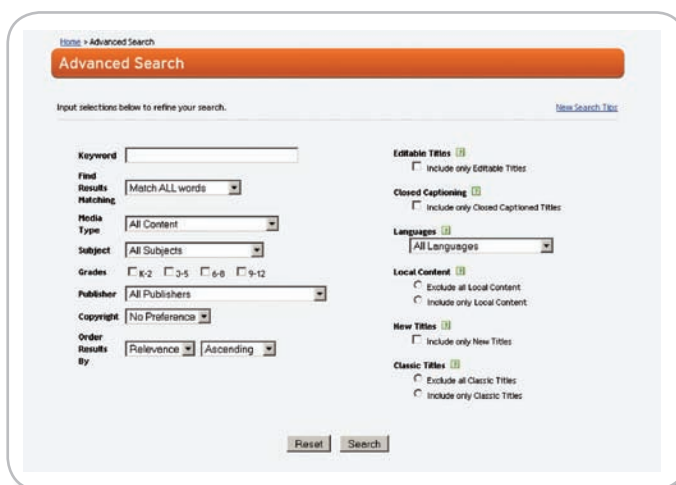
You can modify the number of resources displayed in the main results area by clicking the dropdown menu to display 15, 20, 25 or 30 items per page. Click either the title or the thumbnail image to access the content.

Curriculum Standards

Discovery Education Science Middle School content has been cross-referenced to teaching standards for all states. Use this tool to quickly locate content that matches your state curriculum standards. Select the curriculum documents you wish to view, then choose the grade and copyright date. The screen will refresh and the standards will be displayed on the screen. Click any "+" sign to drill down and view a list of sub-standards.

Advanced Search

The Advanced Search keyword option supports more powerful searching capabilities that allow you to focus on a specific media type or publisher or limit your search to include only Editable, Closed Captioned, or Spanish video titles. You can also choose to exclude Spanish or Classic video titles from your search results. The Advanced Search link is located below the Keyword Search box at the top of the screen.



MY CONTENT

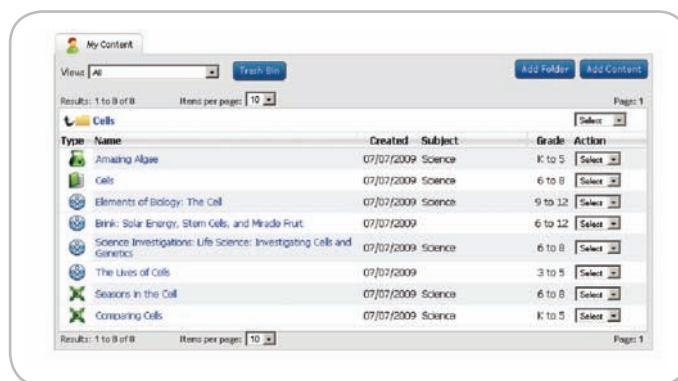
My Content

This dynamic feature allows you to collect, organize, retrieve and assign your favorite Discovery Education Science Middle School media resources in one convenient place. Located in the navigation bar at the top of the screen, “My Content” is accessible from anywhere on the site.

My Content

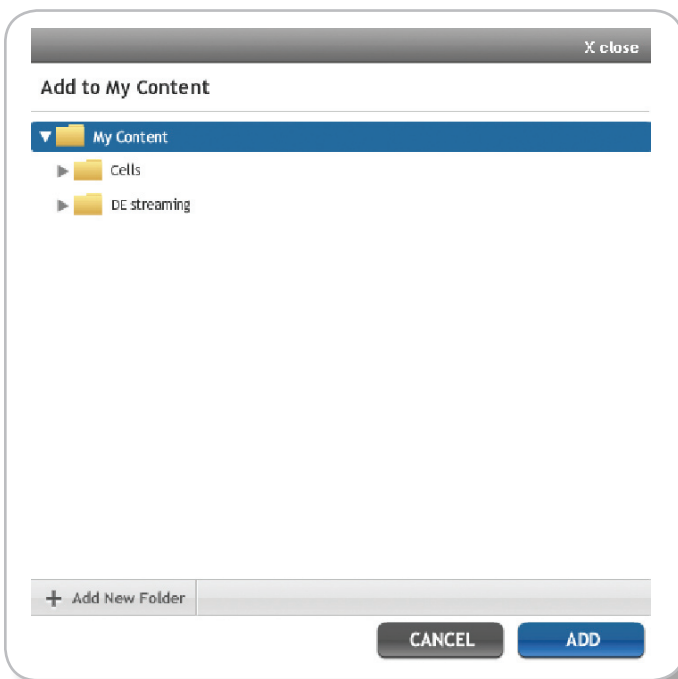
You can add Discovery Education Science Middle School content to folders you create in My Content. Stay organized by creating sub-folders within main folders to create hierarchies within content, grade levels or courses. Adding resources to My Content does not initiate a playing or downloading procedure. The purpose of My Content is to bookmark the resource to avoid searching for it again. All files and projects added to My Content are stored on Discovery Education servers.

The Trash Bin holds your deleted content. In the case that you accidentally delete content, you will be able to click on the Trash Bin button and restore that content to the appropriate folder.



Add a Media Resource to My Content

1. Locate a resource that you wish to add to My Content.
2. Click the link “View Details”
3. Click the link “+ Add to My Content”
4. A pop-up window will open. You may add the resource to the “My Content” default folder, select a folder or add it to a new folder.
5. If you select “Add to New Folder,” follow the prompts and enter a folder name and select a folder location. My Content allows you to create folders within folders.
6. Click the “Add” button and the window will display a confirmation message, telling you that your content has been added.
7. Access your content any time by clicking the “My Content” link on the navigation bar at the top of the screen and then navigate to the correct folder.

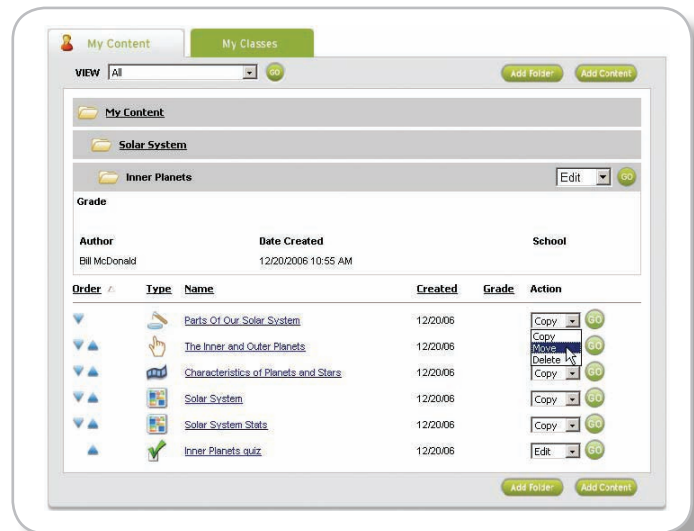


MY CONTENT

My Content

Add a Media Resource to My Content (continued)

Put the flexibility of My Content to work for you. Once you have added media resources to My Content, you can use the Action pull down menu to copy, move, and delete them at any time. You can click the category headings to sort your resources by type, name, creation date, subject, or grade or use the arrows on the left side of the screen to move resources up or down the list, so that they are organized in the way that is most useful to you.

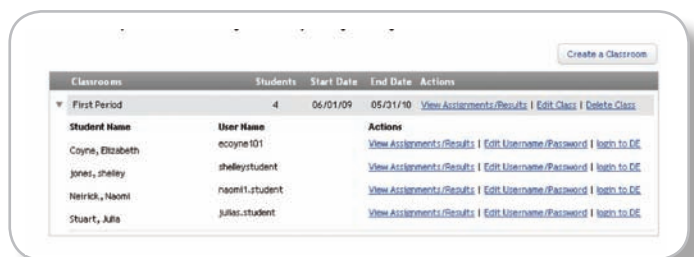


MY CLASSROOMS

My Classes

My Classes

Discovery Education Science Middle School My Classes feature enables you to collect, organize, and assign your favorite assignments, media resources, and assessments to students. Easily accessible in the dark grey toolbar on the top of every page, this online tool helps you manage content and tailor your instruction to the needs of your students. Timely feedback on assessment results and assignment completion helps you stay organized and plan your instruction.



MY CLASSROOMS

My Classes

Adding Classes

Begin by setting up your classes. Click the “My Classrooms” tab within dark grey toolbar and then click the “Create a Classroom” button. Follow the prompts to provide the class name, start date and end date. You must create a class first, before students can be added. Select students from current roster and select “Add”, or select “Add a Student” to create a new student. Classes can be edited at any time by selecting “Edit Class” under the My Classrooms tab.

Creating Student Accounts

A student account must be created by the teacher. A student will have one username and password to access Discovery Science Middle School and other Discovery Education services.

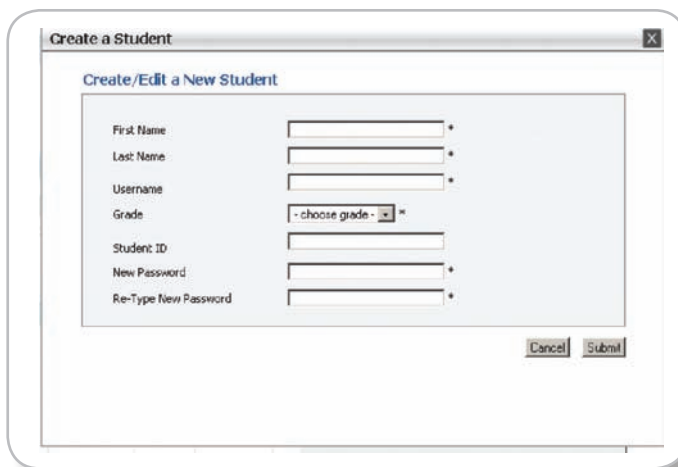
Teacher-Created Student Accounts

1. Locate a class you have already created and select Edit Class from the Action items.
2. In Step 1, you have the option to edit the Class Name and Start and End Dates. Select Save/Continue to move to next step.
3. In step 2, select a student name from the School Roster on the left, and then select the “Add >” button. To create a new student select the “Add a Student” button under the Roster. Fill in the required fields which are indicated by an asterisk and then click the “Submit” button.

When viewing a list of students in a class, you can use the Action buttons to:

- View Assignments/Results
- Edit Username/Password
- Login to DE as a Student

You may view a student profile, but the student password will not be visible. If a student loses his or her password, you must re-set the password by editing the student’s profile information.



The screenshot shows a window titled "Create a Student" with a sub-header "Create/Edit a New Student". Inside the window, there are several input fields, each followed by an asterisk (*) indicating they are required. The fields are: "First Name", "Last Name", "Username", "Grade" (which is a dropdown menu currently showing "- choose grade -"), "Student ID", "New Password", and "Re-Type New Password". At the bottom right of the window, there are two buttons: "Cancel" and "Submit".



MY CLASSROOMS

My Classes

Assigning Content and Activities to a Class

You can share Discovery Education Science Middle School resources with students by adding assignments, media resources and assessments to a class. You have the option of assigning content through the “My Content” tab or through the “My Builder Tools” tab.

“My Content”

1. Navigate to My Content by clicking the link in the dark grey toolbar.
2. Locate the content you wish to assign to a class.
You may assign a folder of content or an individual resource.
3. Click the Action pull down menu, select “Assign”.
4. A pop-up window will open. Begin by selecting the appropriate class. You can choose to assign content to an entire class, a group of students, or a specific student. Next, enter an Assign Date and a Due Date. Click the “Assign” button when you are finished. The screen will refresh and confirm your selections. Click the “Done” button to close the window.

Assigning Content While Viewing “My Classrooms”

1. Navigate to My Classrooms by clicking the link in the dark grey toolbar.
2. Select a class you wish to assign content and click “View Assignments/Results”.
3. Here you see what has been previously assigned. Select “Assign Additional Materials” to add a new assignment.
4. From here you can create a new assignment, search for assignments or search your own previously created assignments.
5. To create a new assignment, see page 26. To assign a previously created assignment, select Media Type, content, class, and dates from the popup window.

The screenshot shows a web browser window with tabs for 'mentary', 'Science Middle School', 'Health', and 'MediaShare'. The active window is titled 'Assign Content' and contains the following fields and options:

- Media Type:** A dropdown menu set to 'Assignment'.
- Assign content:** A dropdown menu set to 'CELLS'.
- Assign To Class:** A dropdown menu set to 'First Period'.
- Assign To Student:** A checkbox labeled 'All Students in Class' which is checked. Below it is a list box containing the names: 'Coyne, Elizabeth', 'Jones, Shelley', 'Neirick, Naomi', and 'Stuart, Julia'. A note below the list box says '<ctrl> click to select multiple names'.
- Assign Date:** A date field set to '07/07/2009' with a calendar icon.
- Due Date:** A date field set to '08/06/2009' with a calendar icon.
- Buttons:** 'Cancel' and 'Assign' buttons at the bottom.

MY CLASSROOMS

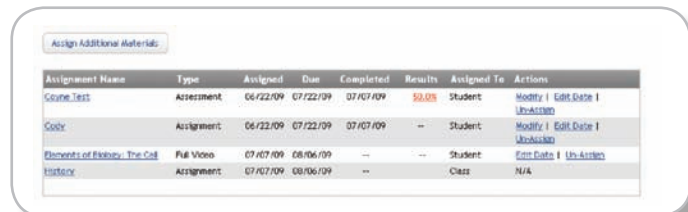
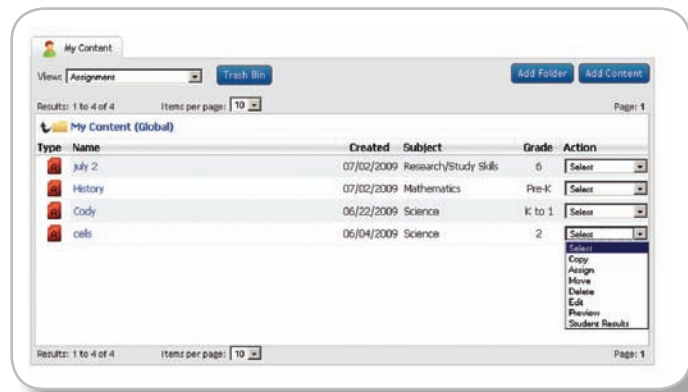
My Classes

Tracking Assigned Content

You can view a list of assigned materials at any time by clicking the "My Content" tab in the dark grey toolbar. Navigate to Assignments by selecting it from the View pull down. Use the Action pull down menu to copy, assign, move, delete, edit, preview, or view student results.

You can also review individual student progress on assessments and assignments.

1. Navigate to My Classrooms by clicking the link in the dark grey toolbar.
2. Select a class.
3. Click on a student name.
4. A list of assigned content will be displayed.
If the student has completed the assessment or assignment, a "--" will appear in the Completed column. If the student completed an assessment, the score will also appear.



MY BUILDER TOOLS

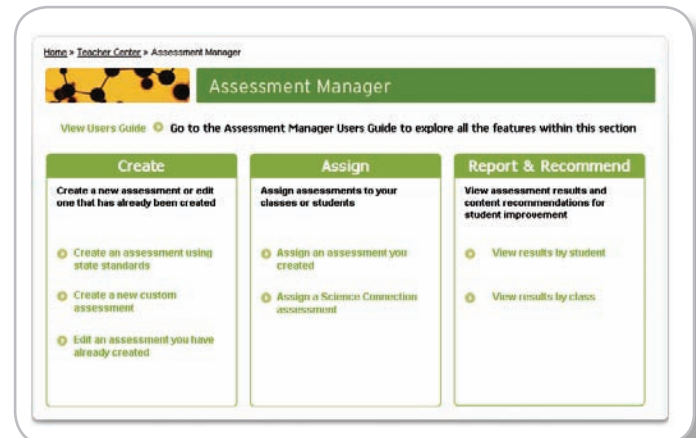
Science Assessment Manager

My Builder Tools

My Builder Tools provides you with powerful tools that allow you to build and manage assessments; create dynamic, interactive multimedia projects for your students and access teaching resources that support your science curriculum and foster process skills. You can save and organize your projects in folders you create within My Content for easy editing and retrieval.

Assessment Manager

Put the power and flexibility of Discovery Education Science Middle School Assessment Manager to work for you. The Assessment Manager pairs formative assessment tools with Discovery Education Science Middle School dynamic content, giving you the ability to monitor your students' understanding of concepts and address specific areas of need by assigning remediation content to individuals or an entire class. Choose from hundreds of pre-made assessment questions tied to state standards, or create your own custom assessments.



MY BUILDER TOOLS

Science Assessment Manager

Create a State Standards Based Assessment

Access the Assessment Manager from anywhere on the site by clicking the My Builder Tools link in the dark grey toolbar at the top of the screen.

Step 1: General Information

Start by providing information about your assessment that your students will see in the form provided. The Assessment Name and Instructions are required fields. You can also include notes to help you remember specifics about the assessment.

Click the "Save and Continue" button when you have completed this section of the assessment. A pop-up window will open. You may save the Assessment to the "My Content" default folder, select an existing folder or add it to a new folder. If you select "Add to New Folder," follow the prompts and enter a folder name and folder location. My Content allows you to create folders within folders, so you can save this assessment to a concept or topic folder if you wish. Next, click "Add" and the window will display a confirmation message, telling you that your assessment has been saved.

Step 2: Select Standards

Discovery Education Science gives you the ability to select specific state standards. Use the pull down menu to select the standards documents you wish to view. The screen will continue to refresh as you select the grade and copyright date. Once the standards are displayed, click the icon to drill down and view the sub standards. Check the box next to the standard(s) you wish to assess. You may select one or multiple standards. To advance to Step 3 of creating an assessment, scroll to the bottom of the screen and click the "Save and Continue" button.

Step 3: Select Questions

Based on the standards you selected, the Assessment Manager will provide a list of all the assessment items in the Discovery Education Science Item Bank that are aligned to those standards. You can select as many of these questions as you wish. To advance to Step 4, scroll to the bottom of the screen and click the "Save and Continue" button.

Step 4: Preview

The Preview feature allows you to see what your assessment looks like in its final form. The correct answer will be indicated below each question. To advance to Step 5, scroll to the bottom of the screen and click the "Save and Continue" button.

Step 5: Assign

In this final step, Discovery Education Science gives you the flexibility to assign your assessment to multiple classes, a single class, groups of students or an individual student. Once you have assigned the assessment, choose the start and end date for the assessment by clicking the pull down menus. Click the "Assign" button at the bottom of the screen to assign the assessment. A message will appear, confirming the assessment has been assigned. Next, click the "Complete" button to finish the assessment. Students will access assessments via Discovery Education Student Center.

MY BUILDER TOOLS

Science Assessment Manager

Create a Custom Assessment

Access the Assessment Manager from anywhere on the site by clicking the My Builder Tools link in the dark grey toolbar at the top of the screen. You can create a custom assessment in five easy steps. To begin, click the link "Create a new custom assessment" located in the Create section.

Step 1: General Information

Start by providing information about your assessment that your students will see in the form provided. The Assessment Name and Instructions are required fields. Select where to save the assessment. You may save to an existing folder or add it to a new folder. You can also include notes to help you remember specifics about the assessment. Once complete, select "Save and Continue".

Step 2: Select Media

In this step, you have the ability to select resources to be used as instructional recommendations for the questions that you create. Students will access these resources if they answer a question incorrectly.

To begin, enter a keyword, select a media type and then click the "Search" button. Scroll down the page to review a list of search results. Click the "Add to My Assessment" box next to the resource(s) you wish to include and then click the button "Add". The screen will refresh and you will see a list of the recommended materials you have selected. To advance to Step 3, click the button "Save and Continue".

Step 3: Add Questions

The Assessment Manager allows you to write original questions or draw from thousands of pre-created questions in the Item Bank.

Add a Custom Question

Begin by selecting a format, either single-answer or multiple answer and then type the question in the space provided. You may choose from the list of recommended materials that you selected in Step 2 by checking the appropriate box. These materials will be recommended when students answer this particular question incorrectly. Next, enter the answer choices. Make sure to check the box next to the correct answer. You may also provide an explanation to support any misconceptions for this question. To complete this question, click the button "Add Questions to Assessment."

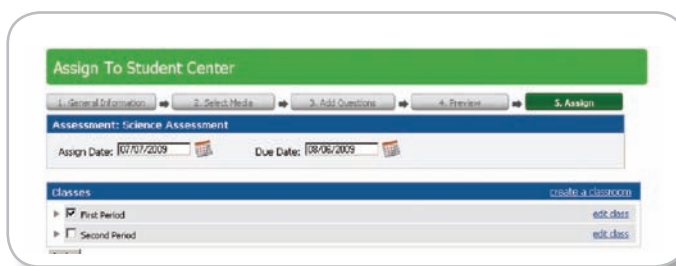
Add Questions from the Discovery Education Science Item Bank Begin by entering a keyword or series of words and then click "Go." A list of questions that support your keyword will be displayed. Click a box to select a question and then click the button "Add Questions To Assessment." Remove questions at any time, by clicking the "Remove" button. Click the button "Save and Continue" to advance to Step 4.

Step 4: Preview

The Preview feature allows you to see what your assessment looks like in its final form. The correct answer will be indicated below each question. To advance to Step 5, scroll to the bottom of the screen and click the button "Save and Continue".

Step 5: Assign

You can assign your assessment to multiple classes, a single class, groups of students or an individual student. Choose the start and end date for the assessment by clicking the pull down menus. Click the "Assign" button at the bottom of the screen to assign the assessment. A message will appear, confirming the assessment has been assigned. Once the assessment is assigned, you can access it in the Create section of the Assessment Manager or in the folder to which you saved it in My Content. Students will access assessments via Discovery Education Student Center.



MY BUILDER TOOLS

Science Assessment Manager

Edit an Assessment You've Already Created

You can access any of the assessments you have created by clicking the "Edit an assessment you have already created" link located in the Create section of the Assessment Manager.

The Assessment Manager will return a list of all the assessments you have created to date. You can preview your assessments by clicking on the assessment name, edit an assessment by clicking the "Edit" button on the right, or delete an assessment by clicking the "Delete" button on the right.



When you click the "Edit" button, you will see Step One of the assessment creation process and you will have access to all stages in the process. You have the ability to change all of the initial elements that you created and add or remove questions and state standards. You can also assign the assessment to a single class, group of classes, group of students or even an individual student. Click directly on any of the steps in the process chain to jump to a specific step, or make changes for each step and then click the "Save and Continue" button at the bottom of the screen.

You may also access your assessments by clicking the "My Content" link at the top of the screen and navigating to the folder to which you saved the assessment. Preview your assessment by clicking on the assessment name. Use the Action pull down menu to edit, copy, move, assign, or delete the assessment.

Assign a Previously-Created Assessment to Students

You can assign any of the assessments you have previously created by clicking the "Assign an assessment you created" link located in the Assign section of the Assessment Manager.

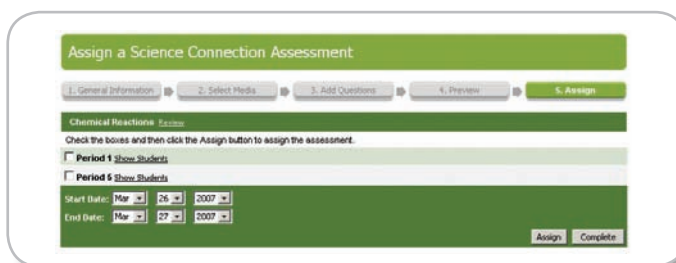
The Assessment Manager will return a list of all the assessments you have created to date. To preview an assessment, click the assessment name. You can also reassign an assessment to multiple classes, a single class, groups of students or an individual student. Simply click the "Reassign" button and you will see Step 5 of the assessment creation process.

Assign a DE Science Assessment to Students

The Assessment Manager contains an extensive databank of pre-created assessments that support Discovery Education Science content at both the Topic and Concept levels. This provides you with significant flexibility to measure student understanding and identify learning gaps.

To begin, click the "Assign a Discovery Education Science assessment" link located in the Assign section of the Assessment Manager. Select to view by Topic or Concept and either Middle School or Elementary and click Search. The Assessment Manager will return a list of assessments. Click an assessment name to view the available questions for this concept or topic. Discovery Education Science will select a subset of these questions on a random basis, so each student who takes the assessment will see different questions. This allows your students to take the assessment more than once without seeing the same questions repeatedly.

Next, click the "Assign" button. You can assign an assessment to multiple classes, a single class, groups of students or an individual student. A message will appear, confirming the assessment has been assigned. Students will access assessments via Discovery Education Student Center.



MY BUILDER TOOLS

Science Assessment Manager

View Assessment Results

The Assessment Manager helps you measure progress by providing detailed assessment results by individual student or by class. You can use Assessment Manager's reporting functions to determine what students know and identify learning gaps. Based on assessment results, you can assign additional Discovery Education Science content for students to review. Students access recommended content through Discovery Education Student Center.

View Results by Student

When you view assessment results by student, you have the ability to see how a student has performed across multiple assessments or you can view detailed results for a single assessment.

When you view assessment results by student, you have the ability to see how a student has performed across multiple assessments or you can view detailed results for a single assessment.

1. Click the link "View results by student" in the Report & Recommend section of the Assessment Manager. A list of your class periods will appear.
2. Select a class period to view a list of students.
3. Select an individual student. Discovery Education Science will display a list of all the assessments the student has completed to date, along with their latest level of proficiency.

Home > Teacher Center > Assessment Manager > Assessment Results By Student > Jason Belevore

Assessment Results By Student

Jason Belevore

Assessments	Correct	Total	Latest Score	Date
Forces	9	16	56.3%	11/28/2006

Score Legend
85% — 100% is green
70% — 84% is orange
0% — 69% is red

NOTE: Students may take an assessment multiple times. Discovery Education Science will display their latest score as the current proficiency level.

4. Review individual assessment details by clicking on an assessment score in the "Latest Score" column. DE Science provides the following information on the Results page:

Total Score on the Assessment:

- Total number of questions
- Total number of correct questions

Detailed Score by Concept:

- Concepts addressed within the assessment
- Total number of questions
- Total number of correct questions

Samuel Barrach

Assessments	Correct	Total	Latest Score	Date
Forces	11	16	Review 68.8%	11/28/2006

Detailed Score by Concept

Below are your student's results by concept. To review your student's answers, click the "Review" link. To help your student improve an understanding of a concept, check the box under "View Recommended Materials" column and then click the "Recommendations" button.

Concept within assessment	Correct	Total	Latest Score	View Recommended Materials (11/28/2006)
Friction	4	5	Review 80.0%	<input type="checkbox"/>
Gravity	4	5	Review 80.0%	<input type="checkbox"/>
Net Force	1	1	Review 100.0%	<input type="checkbox"/>
Newton's Laws	2	5	Review 40.0%	<input type="checkbox"/>

Score Legend
85% — 100% is green
70% — 84% is orange
0% — 69% is red

[Recommendations](#)

5. Review individual assessment question results by clicking the "Review" link. This provides more specific information, so you can see how the student performed on each assessment question.

MY BUILDER TOOLS

Science Assessment Manager

View Recommended Instructional Resources & Assign them to an Individual Student

Discovery Education Science provides two different options for viewing and assigning recommended instructional resources. You can recommend materials by individual question or recommend materials for all missed questions.

Option 1:

View & Assign Recommended Materials by Question

Discovery Education Science provides you with the ability to review recommended materials on a question-by-question basis.

1. Click the link "View results by student" in the Report and Recommend section of the Assessment Manager.
2. Select a class period to view a list of students.
3. Select an individual student and click the assessment score you wish to view.
4. Click the "Review" link next to a concept in which the student scored poorly. You will see a list of concept questions and a detailed report of the student's correct and incorrect answers.

Assessment Results By Student

Samuel Barrach

Friction Questions	Explanation
The force that one surface exerts on another when the two rub against each other is called: A) <input type="radio"/> gravity CORRECT B) <input checked="" type="radio"/> friction C) <input type="radio"/> energy D) <input type="radio"/> electricity	The correct response is B. Friction is the force of objects in contact with each other. View Recommendations

5. Locate a question the student answered incorrectly and click the "View Recommendations" link. Discovery Education Science will provide a list of instructional resources that address the learning objectives that the question was designed to assess. You have the ability to open and review each instructional resource directly from this page to determine the best fit.
6. Review the materials and then check the boxes next to the items you wish to assign to the student.
7. Scroll to the bottom of the page and click the "Assign" button. The next time this student logs into Discovery Education Science, these materials will be available to him/or her in the Student Center.

Option 2:

View & Assign Recommended Materials for All Missed Questions

Discovery Education Science provides you with the ability to review all of the recommended materials available for all of the questions that the student missed.

1. Click the link "View results by student" located in the Report and Recommend section of the Assessment Manager.
2. Select a class period to view a list of students.
3. Select an individual student and click the assessment score you wish to view.
4. Click the "Recommendations" button. Discovery Education Science will provide a list of instructional resources that address the learning objective that the question was designed to assess for all missed questions. You have the ability to open and review each instructional resource directly from this page to determine the best fit.

Assessment Results By Student

Samuel Barrach

Assessments	Correct	Total	Latest Score	Date
Forces	11	16	68.8%	11/28/2006

Detailed Score by Concept

Below are your student's results by concept. To review your student's answers, click the "Review" link. To help your student improve an understanding of a concept, check the box under "View Recommended Materials" column and then click the "Recommendations" button.

Concept within assessment	Correct	Total	Latest Score	View Recommended Materials
Friction	4	5	80.0%	<input checked="" type="checkbox"/>
Gravity	4	5	80.0%	<input checked="" type="checkbox"/>
Net Force	1	1	100.0%	<input type="checkbox"/>
Newton's Laws	2	5	40.0%	<input checked="" type="checkbox"/>

Score Legend
85% — 100% is green
70% — 84% is orange
0% — 69% is red

[Recommendations](#)

5. Review the materials and then check the boxes next to the items you wish to assign to the student.
6. Scroll to the bottom of the page and click the "Assign" button. The next time this student logs into Discovery Education Science, these materials will be available to him/or her in the Student Center.

MY BUILDER TOOLS

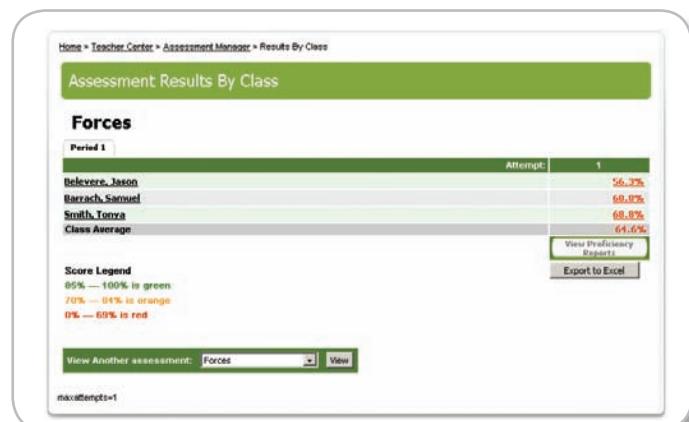
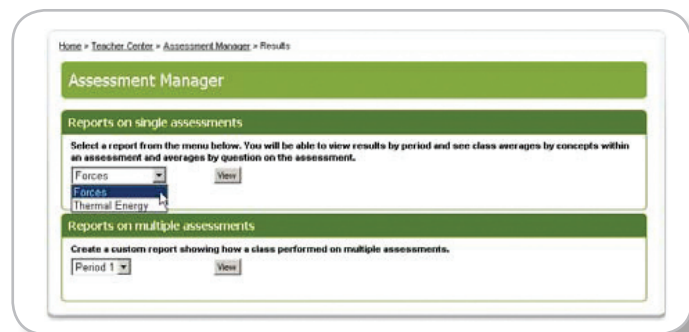
Science Assessment Manager

View Class Progress on an Assessment

The Assessment Manager helps you determine how your classes are performing on a given assessment and provides the tools you need to determine what students know and identify learning gaps. Based on assessment results, you can assign additional Discovery Education Science content for students to review. Students access the recommended content through the Student Center.

View a Report on a Single Assessment

1. Select an assessment by clicking on the link "View results by class" located in the Report and Recommend section of the Assessment Manager.
2. Select the assessment that you wish to view from the pull down menu within "Reports on a single assessment" and click the "View" button.
3. The Assessment Manager will display the assessment results by student. You can view information on individual students across multiple assessments, on student results for an individual assessment or you can examine class performance on an assessment.



MY BUILDER TOOLS

Science Assessment Manager

View Class Performance Reports

The Assessment Manager provides three Class Performance Reports to help you determine class understanding on a given assessment. This enables you to identify learning gaps and modify your instruction accordingly.

1. Select an assessment by clicking on the link “View results by class” located in the Report and Recommend section of the Assessment Manager.
2. Select the assessment that you wish to view from the pull down menu within “Reports on a single assessment” and click the “View” button.
3. Click the “View Proficiency Reports” button.



Proficiency Graph will illustrate the percentage of your students who are performing at Mastery, Partial Mastery and Non-Mastery levels by concept for both Discovery Education Science created assessments and by Standards for Standards-Based Assessments.

Student Score will show individual student scores for each assessment, itemized by concept and standard.

Averages by Question will detail class level performance on each assessment question. Data includes the score per question, the total number of students who received this question, and the number of students with incorrect answers.

View Class Performance Across Multiple Assessments

1. Click the link “View results by class” located in the Report and Recommend section of the Assessment Manager.
2. Select the class you wish to review from the pull down menu within “Reports on multiple assessments.”
3. Select the assessments you wish to view in the report and then click the “Next” button.

Home > Teacher Center > Assessment Manager > Results

Assessment Manager

Period 1 Assessments:

☒ Forces

☒ Thermal Energy

Next

The Assessment Manager provides two class performance reports to help you determine class understanding across multiple assessments.

Student Score will provide class totals and individual scores for each selected assessment.

Proficiency Graph will illustrate the percentage of your students who are performing at Mastery, Partial Mastery and Non-Mastery levels for each selected assessment.

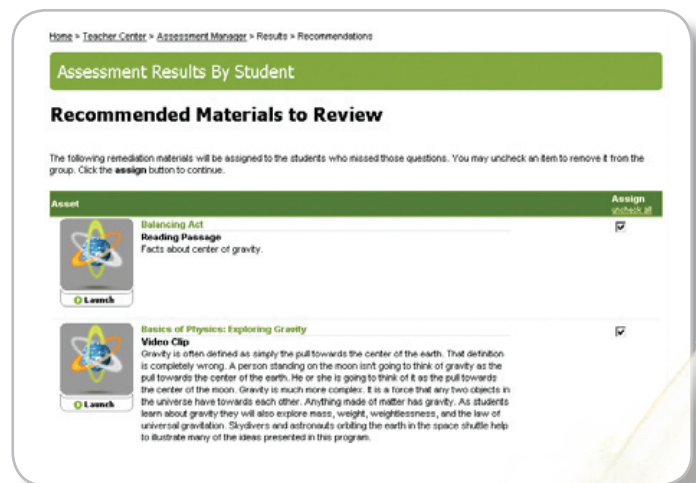
MY BUILDER TOOLS

Science Assessment Manager

View & Assign Recommended Instructional Resources to Multiple Students

The Assessment Manager provides you with the ability to assign recommended instructional resources to all of your classes, individual classes, groups of students or to an individual student.

1. Click the link “View results by class” located in the Report and Recommend section of the Assessment Manager.
2. Select the assessment that you wish to view from the pull down menu within “Reports for a single assessment” and click the “View” button.
3. Click the “View Proficiency Reports” button.
4. Click the “Averages by Question” tab.
5. Select the check boxes for the questions that you wish to review recommended instructional resources for and then scroll to the bottom of the screen and click the “Assign” button.
6. The screen will refresh and display the class roster. Students who answered the question incorrectly have been preselected. You may deselect a student or assign an unchecked student. Select the students you wish to assign materials to and click the “Assign” button.
7. The Assessment Manager will return a list of all the instructional resources that address the learning objective that the question was designed to address. You have the ability to open and review each instructional resource directly from this page to determine the best fit.
8. Select the check boxes next to the resources you wish to assign and click the “Assign” button. The next time this student logs into Discovery Education Science, these materials will be available to him/or her in the Student Center.



MY BUILDER TOOLS

Assignment Builder

The Assignment Builder is a versatile resource that helps you build online activities and web-based projects that are stored on the Discovery Education servers. You can use this tool to create student assignments that integrate a variety of resources such as Virtual Labs, Explorations, Reading Passages, Video Segments and Assessments. Students access assignments through the Student Center.

Creating a New Assignment

Access the Assignment Builder from anywhere on the site by clicking on My Builder Tools in the navigation bar at the top of the screen. To get started, click the “Create New” button from the Assignment Builder home page and follow these steps:

Step 1: General Information

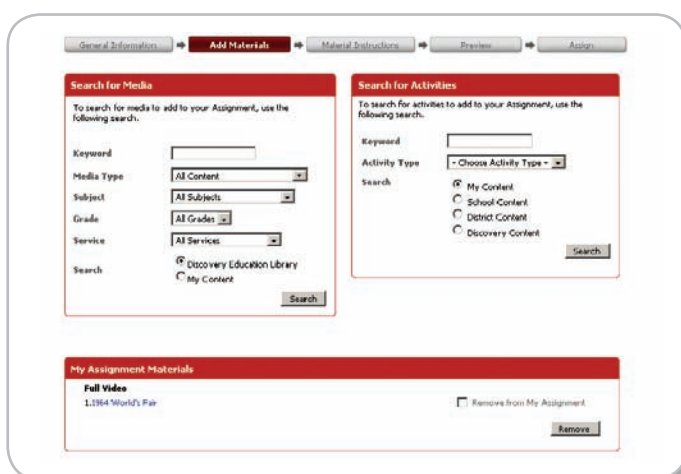
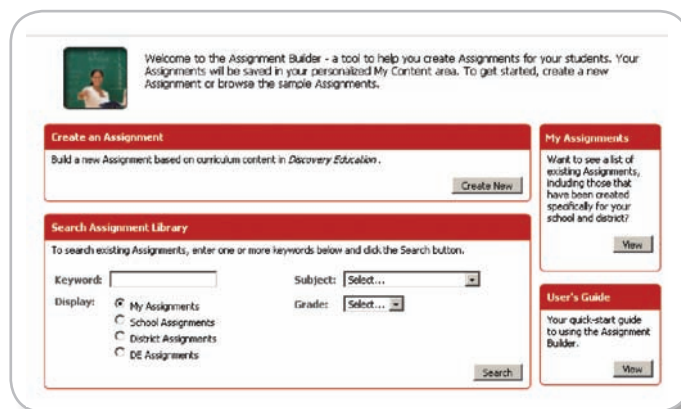
Start by providing information about your assignment in the form provided. The assignment name, author, school, subject area, and grade level are required fields. Assignment instructions and learning objectives that students will see when they launch the assignment are optional. You can also include notes to help you remember specifics about the assignment or talking points for your lesson. Save your assignment by clicking on the Save button at the bottom of the screen. If you choose not to click Save, a warning message will appear on each step thereafter, until you click on the Save button and select the folder within My Content to which you would like to save your assignment.

Step 2: Add Materials

Use Discovery Education Science vast offering of digital media to create exciting, interactive assignments for your students. Add Interactive Science Simulations, Video Segments, Myth Busters video and more. You can also add assessments and links to websites to your assignments. Click the “Continue” button to advance to Step 3.

Step 3: Material Instructions

Once you have selected materials for your assignment, you can write step-by-step instructions that your students will see as they work with each material type. Click the “Continue” button to advance to Step 4.



Step 4: Preview

The Preview feature allows you to see what your assignment looks like in its final form. If you wish to make changes, simply click on any of the steps in the process chain. Click the “Continue” button to advance to Step 5.

Step 5: Summary

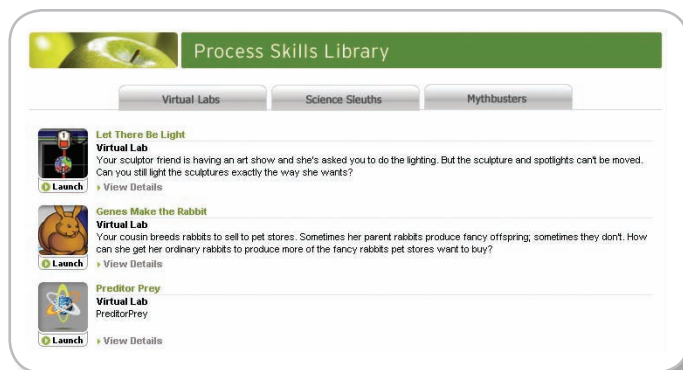
The summary step provides the file location to which you saved your assignment in My Content and enables you to assign the assignment to multiple classes, a single class, groups of students or an individual student. Once you have assigned the assignment, choose the start and end date by clicking the pull down menus. Next, click the “Assign” button at the bottom of the screen. A message will appear, confirming the assignment has been assigned. Next, click the “Complete” button to complete the assignment.

MY BUILDER TOOLS

Process Skills Library

Process Skills Library

Discovery Education Science supports students' understanding of science inquiry by providing opportunities to observe and experience science investigation. A variety of media in the Process Skills Library addresses the critical thinking skills students must acquire in order to successfully engage in scientific methodology. Each of these experiences is connected to specific Discovery Education Science concepts and can also be accessed when browsing for content.

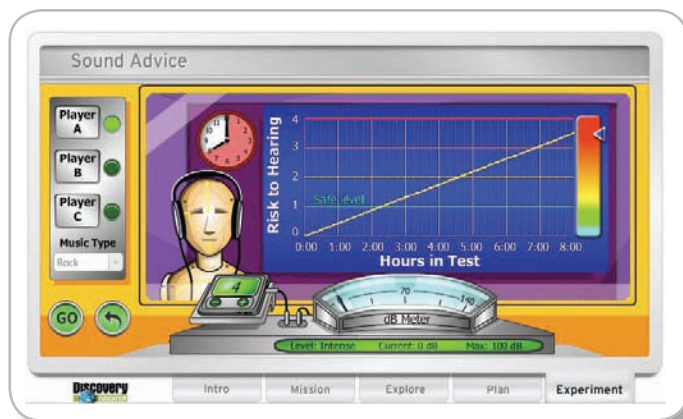


Access the Process Skills Library by clicking the Teacher Center link in the navigation bar at the top of the screen. Once in the Teacher Center, select the Science Middle School tab.

MythBusters episodes from the Discovery Channel's popular television series have been carefully selected and edited for middle school audiences and illustrate the adventure and the careful use of the science process to prove a science myth, or bust it! Students are provided with observation sheets and teachers receive a guide that enables them to look for good scientific inquiry skills being used by MythBusters hosts Jamie and Adam.

Science Sleuths, an updated web version of Video Discovery's popular CD-ROM and video-disc series, engages students in real-world challenges in which they become science detectives. Students are presented with a science mystery or possible crime and use articles, interviews, investigations, and video presentations to gather the information they need to solve the problem. Students take notes and collect data as they progress, and present their findings to the Science Sleuth hostess when they are done.

Virtual Labs engage students in developing a well-designed science investigation. These activities support hands-on examination and help to develop students' ability to design and conduct their own investigation. Students begin each virtual lab by viewing the Introduction and reading the Mission, where they consider a real-world problem. Details are provided in a downloadable PDF Briefing Document. Next, they move on to the Explore phase in which they learn how to manipulate the control tools in the lab or field study to gather their data. Once they have had a chance to explore, test and understand the components of the lab, students enter the Plan



phase where they develop their own testable questions related to the problem. They must also develop a plan for how they will use the lab or field study to conduct their investigation. Upon approval of the plan by the teacher, students begin the Experiment phase and conduct their



PROFESSIONAL DEVELOPMENT & IMPLEMENTATION SUPPORT

Professional Development

Discovery Education offers a host of staff development options designed to help you make the most effective use of Discovery Education Science digital resources. Among the options are self-paced tutorials, best practice video segments, and staff development training materials.

Best Practices

View short, 30-second video segments that address timely educational themes, and gain exciting strategies to use in your classroom. The current Best Practice series showcases middle school science teachers using the 5Es model of instruction in the classroom.

Trainer's Toolkit

Use the resources and materials in the Trainer's Toolkit to enhance your Discovery Education Science staff development workshops. Download digital versions of the Teacher's User Guide, the QuickStart Guide and other support documents.

Tech Talk

Visit Tech Talk to locate resources from the Discovery Education Science Customer Support Team. You'll find materials to help you successfully launch Discovery Education Science at your school or district and documents that address technical and network issues.

